

INTERNATIONAL SEARCH REPORT

Application No
PCT/EP 03/07335

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H01M2/16

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01M B32B B01D C08J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
E	WO 2004/021499 A (HENNIGE VOLKER ; HOERPEL GERHARD (DE); HYING CHRISTIAN (DE); CREAVIS T) 11 March 2004 (2004-03-11) the whole document	1-25
X	WO 91/19326 A (DURACELL INC) 12 December 1991 (1991-12-12) the whole document	11,22,23
A		1,2,6, 8-10, 15-18, 24,25
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- *A* document defining the general state of the art which is not considered to be of particular relevance
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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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Date of the actual completion of the international search

19 July 2004

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30/07/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>DATABASE WPI Section Ch, Week 199743 Derwent Publications Ltd., London, GB; Class A85, AN 1997-468159 XP002288863 & JP 09 219185 A (SUMITOMO ELECTRIC IND CO) 19 August 1997 (1997-08-19) abstract</p>	11
A		1, 10, 24, 25
A	<p>----- DATABASE WPI Section Ch, Week 199817 Derwent Publications Ltd., London, GB; Class A17, AN 1998-020805 XP002288864 & JP 10 044348 A (TONEN KAGAKU KK) 17 February 1998 (1998-02-17) abstract</p>	3-5, 10, 11, 24, 25
A	<p>----- EP 0 951 080 A (CELGARD LLC) 20 October 1999 (1999-10-20) the whole document -----</p>	1

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/07335

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 2004021499	A	11-03-2004	DE 10238941 A1 WO 2004021499 A2	04-03-2004 11-03-2004
WO 9119326	A	12-12-1991	US 5091272 A AU 7798191 A WO 9119326 A1	25-02-1992 31-12-1991 12-12-1991
JP 9219185	A	19-08-1997	NONE	
JP 10044348	A	17-02-1998	CA 2206940 A1 DE 69724513 D1 DE 69724513 T2 EP 0811479 A2 US 5922492 A	04-12-1997 09-10-2003 17-06-2004 10-12-1997 13-07-1999
EP 0951080	A	20-10-1999	US 6080507 A CA 2266152 A1 DE 69900190 D1 DE 69900190 T2 EP 0951080 A1 JP 11329390 A JP 2004014526 A TW 480766 B	27-06-2000 13-10-1999 30-08-2001 14-03-2002 20-10-1999 30-11-1999 15-01-2004 21-03-2002